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ABSTRACT

10 A system and method for cooling and heating of buildings comprising an integrated  
assembly of devices, including a variable speed air handler, hot water heating coil, outside air  
damper, controller, and optional compressor-based air conditioner. During the summer the  
15 system utilizes nighttime outside air for cooling and uses air temperature predictions to provide  
information about optimal control settings and to maintain comfort. During the winter the  
20 system varies airflow with heating demand and ventilates with outside air to maintain indoor air  
quality.  
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